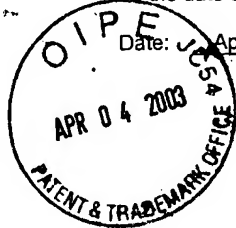


1645#7

I hereby certify that this correspondence is being deposited with the US Postal Service with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231, on the date shown below.



Date: April 1, 2003

By:

Kay L. Gaviglio

**PATENT**  
**Docket No. GC652**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of )

Shaw )

Serial No.: 10/068,374 )

Filed: February 6, 2002 )

For: **MODIFIED TARGET ENZYMES** )  
**HAVING CATALYTIC TRIADS** )  
**AND USES THEREOF** )

Group Art Unit: 1645

Examiner: Unassigned

**Information Disclosure Statement**

Commissioner for Patents  
Washington, DC 20231

Sir:

Applicants submit herewith patents, publications or other information (listed on the attached Form PTO-1449 and attached thereto) of which they are aware, that they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

A concise explanation of relevance of the items listed on PTO-1449 is:

- ☒ not given
- ☐ given for each listed item
- ☐ given for only non-English language listed item(s)
- ☐ in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

A copy of the items on Form PTO-1449 is supplied: PCT International Search Report for PCT/US 02/03347, filed February 4, 2002 with attached patents and publications.

☐ each ☒ none ☐ only those listed below:

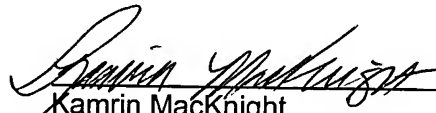
The Examiner is reminded that a "concise explanation of the relevance" of the submitted prior art "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention." MPEP §609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR §1.97(b), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR §1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.98 and MPEP §609 and the Examiner is respectfully requested to consider the listed references.

Respectfully submitted,

Date: April 1, 2003

  
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**INFORMATION DISCLOSURE CITATION**

Attorney Docket No.: GC652	Serial No.: 10/068,374
Applicant: Shaw	
Filing Date: February 6, 2002	Group: 1645
Page <u>1</u> of <u>1</u>	Date of this Submission: April 1, 2003

**US PATENT DOCUMENTS**

Examiner's	Document				Sub-	Filing
Initial	Number	Date	Name	Class	Class	Date

**FOREIGN PATENT DOCUMENTS**

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No
	0 739 982 A1	10/30/1996	EP			

**OTHER DOCUMENTS**

Examiner's	
Initials	Author, Title, Date, Pertinent Pages, etc.
	Beguin, P., "Molecular Biology of Cellulose Degradation", <i>Ann Rev. Microbiol.</i> , 1990 Vol. 44, pp. 219-248
	Davies et al., "Structure of the Bacillus agaradherans Family 5 Endoglucanase at 1.6 Å and Its Cellobiose Complex at 2.0 Resolution", <i>Biochemistry</i> , 1998, Vol. 37, pp. 1926-1932
	DeSantis et al., "Chemical Modifications at a Single Site Can Induce Significant Shifts in the pH Profiles of a Serine Protease", <i>J. Am. Chem. Soc.</i> , 1998 Vol. 120, pp. 8582-8586
	Dodson et al., "Catalytic triads and their relatives", <i>TIBS</i> , 1998, Vol. 23(9), pp.347-352
	Shaw et al., "A Novel Combination of Two Classic Catalytic Schemes", <i>J. Mol. Biol.</i> , July 2002, Vol. 320, pp. 303-309
	Shirai et al., "Crystal Structure of Alkaline Cellulase K : Insight into the Alkaline Adaptation of an Industrial Enzyme", July 2001, Vol. 310, pp. 1079-1087
	Wang et al., "Glu280 Is the Nucleophile in the Active Site of Clostridium thermocellum CelC, a Family A Endo-Beta-1, 4-glucanase," <i>J. Biol. Chem.</i> , 05 July 1993, V268(19), pp. 14096-14106
Examiner	Date Considered
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	